

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/026607

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/557 A61K31/662 C07C49/753 C07C69/743 C07C235/30
C07D257/04 C07F9/08 A61P27/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 060 540 A (BERNADY KAREL FRANCIS ET AL) 29 November 1977 (1977-11-29) compound according to example 268 and 385; column 35, line 13-30	1-3, 14-17, 21-23
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; FLOYD, M. BRAWNER ET AL: "Prostaglandins and congeners. 21. Synthesis of some cyclohexyl analogs (11.alpha.-homoprostaglandins)" XP002310257 retrieved from STN Database accession no. 1979:54519 abstract -/--	21-23

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

13 December 2004

Date of mailing of the international search report

04/01/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	-& JOURNAL OF ORGANIC CHEMISTRY , 44(1), 71-5 CODEN: JOCEAH; ISSN: 0022-3263, 1979, XP012004507 compound 15, 16, 19-21, 26-31 -----	21-23
X	US 3 985 798 A (FLOYD JR MIDDLETON BRAWNER ET AL) 12 October 1976 (1976-10-12) example 1-12 -----	21-23
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; LOPEZ-PELEGRIN, JOSE A. ET AL: "Solution- and soluble-polymer supported asymmetric syntheses of six-membered ring prostanoids" XP002310258 retrieved from STN Database accession no. 2000:771975 abstract -----	21-23
X	-& CHEMISTRY--A EUROPEAN JOURNAL , 6(11), 1917-1922 CODEN: CEUJED; ISSN: 0947-6539, 2000, XP002310255 table 2, compound 1a -----	21-23
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; OHUCHIDA, SHUICHI ET AL: "Synthesis of thromboxane A2 analogs - 3. (+)-Thiathromboxane A2" XP002310259 retrieved from STN Database accession no. 1984:209457 abstract -----	21-23
X	-& TETRAHEDRON , 39(24), 4269-72 CODEN: TETRAB; ISSN: 0040-4020, 1983, XP009041522 scheme I and II, compound 4 and 8 -----	21-23
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; CROSSLEY, N. S.: "Cyclohexane analogs of the prostaglandins" XP002310260 retrieved from STN Database accession no. 1971:529380 abstract -----	21-23
X	-& TETRAHEDRON LETTERS , (36), 3327-30 CODEN: TELEAY; ISSN: 0040-4039, 1971, XP002310256 compound II with R=O and R'=H -----	21-23

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT – Method for treatment of the human or animal body by therapy: Although claims 1-13 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/026607

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4060540	A	29-11-1977	US 4007210 A	08-02-1977
US 3985798	A	12-10-1976	NONE	